Imperial®

Your guide to quality sporting ammunition and its use.

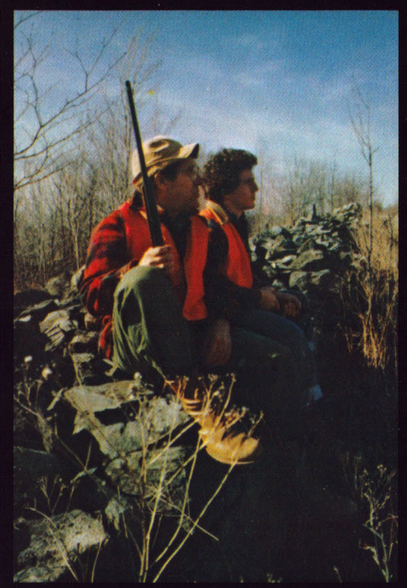
Imperial understands your ammunition needs

For many years now our company has been providing Canadian hunters and target shooters with a wide range of quality sporting ammunition.

Our ammunition continues to be chosen by knowledgeable sports shooters for a variety of reasons. In particular for its consistent performance, power and accuracy, in the field and on the range. Another important consideration is the fact that ammunition is our only business. We manufacture our products totally, from the melting of copper and zinc in our foundry to produce the high quality brass; to automated assembly facilities that produce the final ammunition.

In this brochure, we've presented a full range of Imperial ammunition. In addition, you'll find performance tips on using our products and gaining the most enjoyment from your sport.

We hope you will enjoy using our products. More importantly, we want you to use them safely.



Imperial

Imperial Shotshells

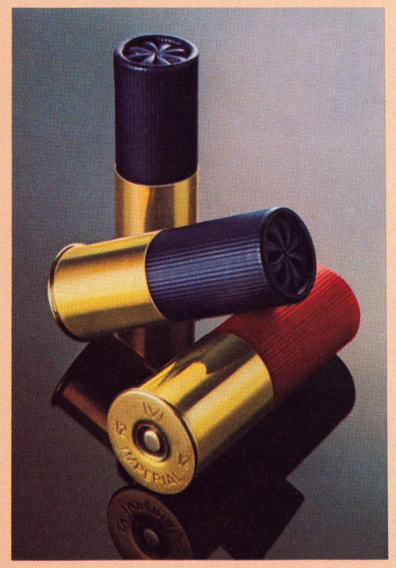
Top performance in a full range.

We listen to what shooters ask for in shotgun shell performance. An optimum combination of pattern and velocity. Imperial shotshells have been field tested by people like you and when you check our features, you'll see why we can promise results.

Imperial shotshells continue to be refined and improved to give you that extra edge. Even the look is different with the high grade plastic ammunition case combined with the high brass head.

Every component is developed for high performance. The shot itself is a special combination of lead and antimony for extra hardness that eliminates pellet deformation. The exclusive "Dynawad" Plastic Wad System ensures a uniform, consistent shot pattern to ensure total performance.

Take another look at Imperial shotshells. We'll show you performance.



High Performance Dynawad® System

The unique "Dynawad" system features a two-piece tough plastic wad. Two gas seals ensure all of the powder gas pressure is properly controlled and the shot charge is fully propelled.

Balanced Propellant Charge

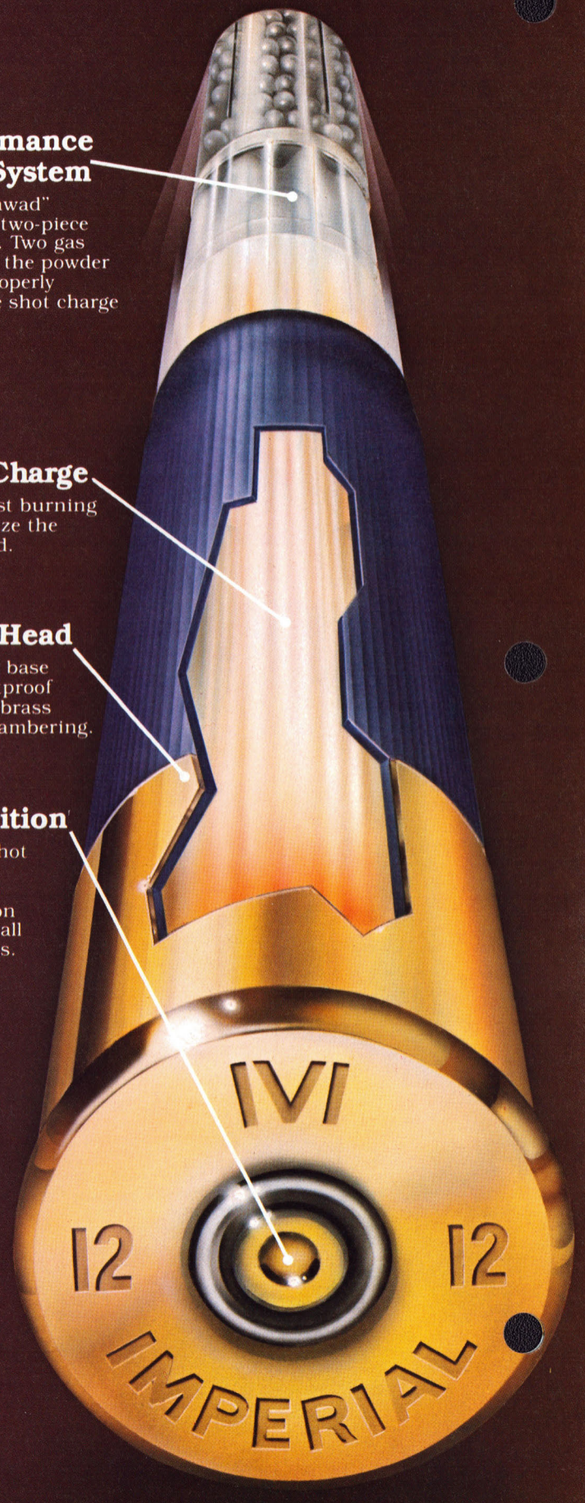
The finest, cleanest burning powder to maximize the power in each load.

High Brass Head

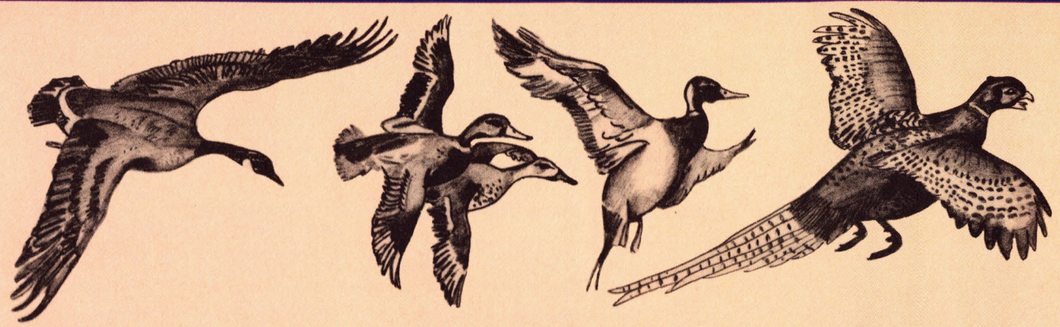
The highest metal base system totally rustproof with a smooth all-brass head for easier chambering.

Positive Ignition

An intense white-hot flame ignites the smokeless powder for positive ignition shot after shot in all weather conditions.



Performance Tips on Shotgun Shooting



Recommended shot sizes

	Type of Shell	Shot size
Ducks	Magnum Special Long Range	4, 5, 6
Geese	Magnum Special Long Range	BB, 2, 4
Pheasants	Special Long Range Heavy Loads	5, 6, 7½
Quail	Standard Loads	7½, 8, 9
Ruffed Grouse & Partridge	Special Long Range Standard Loads	6, 7½, 8
Rabbits	Special Long Range Standard & Heavy Loads	4, 5, 6, 7½
Woodcock, Snipe	Standard & Heavy Loads	7½, 8, 9
Crows	Special Long Range Standard & Heavy Loads	5, 6, 7½
Foxes	Magnum Special Long Range	BB, 2, 4

Standard shot sizes

Bird shot	Pellet Dia. ins.	Pellets per oz.	Buck shot	Pellet dia. ins.	Pellets per oz.	English equiv.
9	.080	585	4 Buck	.220	27	AAA
8	.090	410	3 Buck	.250	19	AAAA
7½	.095	350	1 Buck	.300	11	SG
6	.110	225				
5	.120	170	0 Buck	.320	9	SSG
4	.130	135				
2	.150	90	00 Buck	.330	8	Spec. SSG
BB	.180	50				

Illustration, diameter and number of pellets per ounce are approximate.

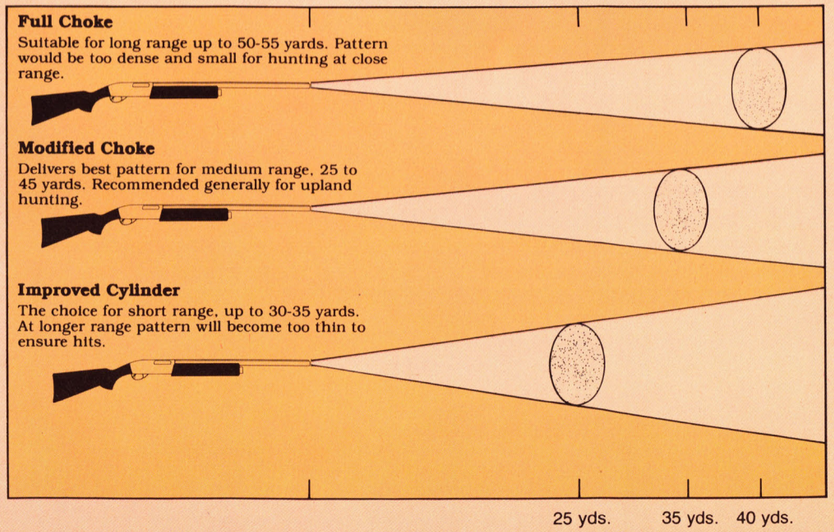
Shot patterns and Choke

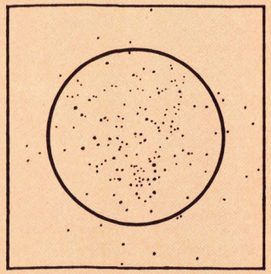
The amount of constriction in a shotgun's bore determines choke. This constriction slightly squeezes the shot charge just before it leaves the muzzle. The amount of choke is illustrated by the percentage of pellets which hit within a 30-inch circle drawn on a target placed at 40 yards. The choice of choke should be made in relation to the distance at which targets will be shot.

Range:

Regardless of target range, individual pellets may travel to extreme distances. For complete safety, always consider these distances in and around the target area.

00 Buck Shot	615 yards
No. 2 Shot	350 yards
No. 6 Shot	280 yards
No. 9 Shot	230 yards


Full Choke
Suitable for long range up to 50-55 yards. Pattern would be too dense and small for hunting at close range.
Modified Choke
Delivers best pattern for medium range, 25 to 45 yards. Recommended generally for upland hunting.
Improved Cylinder
The choice for short range, up to 30-35 yards. At longer range pattern will become too thin to ensure hits.
25 yds.
35 yds.
40 yds.



This No. 4 shot pattern fired from a 12 gauge 30" Full Choke shotgun at 40 yards shows over 75% of pellets are within a 30 inch in diameter circle.

The same pattern will be obtained with Modified Choke or Improved Cylinder at the target ranges indicated at the left.

Imperial Shotshells

Special Long Range Loads:

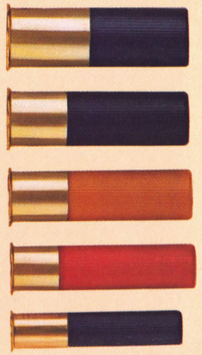
Imperial special long range has the velocity, power and pattern you need for waterfowl and long range upland game. They are especially designed for the sportsman who demands the utmost in performance.

Magnum Loads:

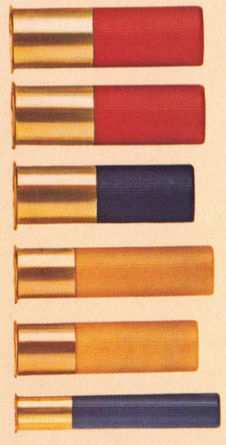
Imperial 2¾" and 3" magnum. These loads are the most powerful of our shot charges and ensure a denser pattern and maximum penetration. They are designed for excellent down range performance and have the extra reaching power and high velocity you need when hunting high flying ducks and geese.

Rifled Slug Loads:

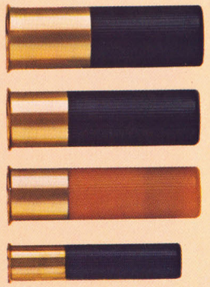
Imperial "poly-kor" stabilized slug and rifled slug loads. A great combination of power and precision for medium and larger sized game at short range.



PRODUCT SYMBOL	GAUGE	SHELL LENGTH	OZ.	SHOT SIZES
V12 IL	12	2¾"	1¼	BB,2,4,5,6,7½
V16 IT	16	2¾"	1⅛	2,4,5,6,7½
V20 IM	20	2¾"	1	2,4,5,6,7½
V28 IZ	28	2¾"	3/4	4,6,7½
V410 IR	.410 bore	2½"	1/2	4,5,6,7½



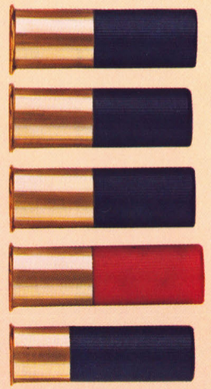
PRODUCT SYMBOL	GAUGE	SHELL LENGTH	OZ.	SHOT SIZES
V12M3 PX	12	3"	1⅞	BB,2,4,6
V12M3 IP	12	3"	1⅝	BB,2,4,5,
V12M LX	12	2¾"	1½	BB,2,4,5,6
V20M3 IH	20	3"	1¼	4,6,7½
V20M MX	20	2¾"	1⅛	2,4,6
V410M3 IQ	.410 bore	3"	11/16	4,5,6,7½



PRODUCT SYMBOL	GAUGE	SHELL LENGTH	OZ.	SIZES
V12 IL RS	12	2¾"	7/8	'Poly-Kor' Stabilized Slug
V16 IT RS	16	2¾"	4/5	Rifle Slug
V20 IM RS	20	2¾"	5/8	Rifle Slug
V410 IR RS	.410 bore	2½"	1/5	Rifle Slug

Buckshot Loads:

Delivers our consistent quality, for medium sized game at short range. The shot charge and pellets are designed to deliver more energy at point of impact.



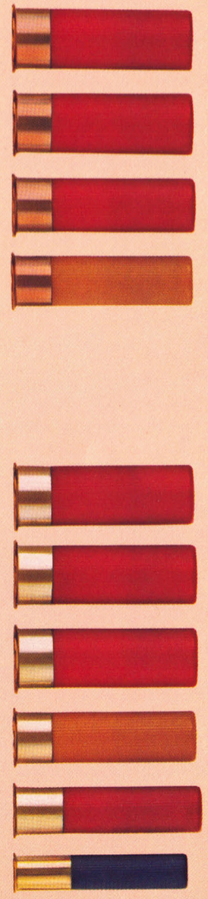
PRODUCT SYMBOL	GAUGE	SHELL LENGTH	NO. OF PELLETS	SIZES
V12 IL 4B	12	2¾"	34	—4 Buck
V12 IL 0B	12	2¾"	12	—0 Buck
V12M LX 00B	12	2¾"	12	—00 Buck
V12M3 PX 00B	12	3"	15	—00 Buck
V16 IT 1B	16	2¾"	12	—1 Buck

Standard & Heavy Loads:

Canuck standard is the perfect all around light load for short range birds, upland game and pests. The heavy load is best suited for larger type of upland game.

Target Loads:

Light recoil and uniform patterns make this load ideal for competition and practice. Our target loads inspire confidence and provide the exacting quality demanded by top shooters.



PRODUCT SYMBOL	GAUGE	SHELL LENGTH	OZ.	SHOT SIZES
V12 DA	12	2¾"	1⅛	4,5,6,7½
V12 DN	12	2¾"	1¼	2,4,5,6,7½
V16 DT	16	2¾"	1	4,5,6,7½
V20 DM	20	2¾"	7/8	4,5,6,7½

PRODUCT SYMBOL	GAUGE	SHELL LENGTH	OZ.	SHOT SIZES
V12 2 JX	12	2¾"	1⅛	7½, 8,9–(2¾ dr)
V12 3 JX	12	2¾"	1⅛	7½, 8,9–(3 dr)
V12 JI	12	2¾"	1⅛	7½, 8,9–(3¼ dr)
V20 JM	20	2¾"	7/8	9
V28 JZ	28	2¾"	3/4	9
V410 JR	.410 bore	2½"	1/2	9

Imperial Highpower

Accuracy and power with every round.

You demand accuracy and power with every round. To ensure that result, we select the best possible components in the manufacture of Imperial highpower cartridges.

The same high standards are maintained throughout the production process. There's a complete choice from high velocity lightweight bullets to heavier weight bullets with medium velocity, all delivering target grade accuracy and exact performance round after round.

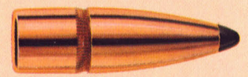
Once again, Imperial pays particular attention to the shooters needs. This is what leads to special features found in our 'Kling-Kor' Soft Point bullet or the 'Sabretip' with the exclusive plastic tip. We even apply that special attention to our packaging. The Imperial belt cartridge holder keeps your ammunition at the ready, safely, conveniently.

Maximum accuracy
Imperial's aerodynamically-designed bullet delivers accuracy and stopping power round after round.
Quality Brass Case
Quality is controlled from the casting of the alloy right up to the final loading stage.
Powerful Propellant Charge
Our ballisticians select the finest powder for each load.
Positive Ignition
An intense white-hot flame from the primer ignites the smokeless powder for consistent ignition.
IMPERIAL
30-06 SPRG.

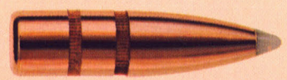
Performance Tips for Centerfire Rifle Shooting

Imperial Bullet Types

The lightweight Pointed Soft Point (PSP)
Use this bullet type for hunting medium-size game and varmints. Although lighter than regular Pointed Soft Point, this bullet provides the same outstanding accuracy and the superb mushrooming qualities of its heavier version.



The "Pointed Soft Point" (PSP)
Its sharply pointed aerodynamic shape, its high velocity and lower trajectory minimize sighting problems. This is the bullet type for longer range, medium size game shooting. The Pointed Soft Point also has excellent mushrooming qualities.



The Sabretip (ST)
Use the heavier weight for big game and the lighter weight for medium size game. This bullet combines a tough jacket and a highly durable plastic tip that will not deform when chambered. Its unique ballistic shape ensures pinpoint accuracy, excellent expansion and mushrooming qualities.

The "Kling-Kor Soft Point" (KKSP)
The perfect bullet for medium-size and big game. Expansion is tightly controlled even on shorter range shots. Notches in the metal jacket lock-in the lead core. This means far greater weight retention and deeper penetration, combined with maximum impact.

The Soft Point (SP)
This is a bullet for big game. Jacketed in a metal case, with either a round or flat nose, the Soft Point is a most dependable bullet for shorter ranges.

(PSP) (L)

(PSP)

(ST)

(KKSP)

(SP)

Popular Use Chart

Description	Bullet Wt. in Grains	Bullet Type	Deer	Black Bear	Antelope	Bighorn Sheep	Mountain Goat	Caribou	Moose	Elk	Grizzly Bear	Groundhog	Fox	Coyote	Wolf
222 Rem.	50	PSP										X	X	X	X
223 Rem.	55	PSP										X	X	X	X
22-250 Rem.	55	PSP										X	X	X	X
243 Win.	75	PSP										X	X	X	X
	100	PSP	X		X								X	X	X
6 mm Rem.	75	PSP										X	X	X	X
	100	PSP	X		X								X	X	X
25-06 Rem.	120	PSP	X	X	X	X	X	X					X	X	X
6.5 x 55 mm	160	SP	X	X										X	X
250 Savage	100	PSP	X	X	X			X					X	X	X
270 Win.	130	ST•PSP	X	X	X	X	X	X					X	X	X
	160	KKSP	X	X		X	X	X	X	X	X				
7 mm Mauser	160	KKSP	X	X		X	X	X	X	X	X				
7 mm Rem. Mag.	150	PSP	X	X		X	X	X	X	X	X				
	175	SP	X	X		X	X	X	X	X	X				
30-30 Win.	150	ST•KKSP	X	X									X	X	X
	170	ST•KKSP	X	X				X							
30-06 Sprg.	110	PSP					X					X	X	X	X
	150	ST•PSP	X	X	X	X	X	X					X	X	X
	180	ST•KKSP	X	X	X	X	X	X	X	X	X				
	220	KKSP		X				X	X	X	X				
300 Win. Mag.	150	PSP	X		X										
	180	ST				X	X	X	X	X	X				
300 Savage	150	PSP	X	X	X	X	X	X					X	X	X
	180	KKSP	X	X		X	X	X	X	X					
303 Savage	190	KKSP	X	X											
303 British	150	ST•PSP	X	X	X	X	X	X					X	X	X
	180	ST•KKSP	X	X	X	X	X	X	X	X	X				
	215	KKSP	X	X		X	X	X	X	X	X				
308 Win.	110	PSP					X					X	X	X	X
	150	ST•PSP	X	X	X	X	X	X					X	X	X
	180	ST•KKSP	X	X	X	X	X	X	X	X	X				
	200	KKSP	X	X				X	X	X	X				
32 Win. Special	170	KKSP	X	X				X							
38-55 Win.	255	SP	X	X											
44 Rem. Mag.	240	SP	X	X											

Imperial Ballistics

Centrefire Rifle Cartridges

Product Symbol			Description	Bullet Weight in grains	Bullet Type	Velocity Feet per second						Energy		
						Muzzle	100 Yards	200 Yards	300 Yards	400 Yards	500 Yards	Muzzle	100 Yards	200 Yards
V222R	50	PS	**222 Rem.**	**50**	**Pointed Soft Point**	3140	2602	2123	1700	1350	1107	1094	752	500
V223R	55	PS	**223 Rem.**	**55**	**Pointed Soft Point**	3240	2747	2304	1905	1554	1270	1282	921	648
V22250	55	PS	**22/250 Rem.**	**55**	**Pointed Soft Point**	3680	3137	2656	2222	1832	1493	1654	1201	861
V243W	75	PS	**243 Win.**	**75**	**Pointed Soft Point**	3350	2924	2536	2180	1854	1563	1869	1424	1071
V243W	100	PS		**100**	**Pointed Soft Point**	2960	2697	2449	2215	1993	1786	1945	1615	1332
V6MMR	75	PS	**6 mm Rem.**	**75**	**Pointed Soft Point**	3470	3064	2694	2352	2036	1747	2003	1562	1207
V6MMR	100	PS		**100**	**Pointed Soft Point**	3100	2829	2573	2332	2104	1889	2133	1777	1470
V2506	120	PS	**25/06 Rem.**	**120**	**Pointed Soft Point**	2990	2730	2484	2252	2032	1825	2382	1985	1644
V65X55	160	SP	**6.5 x 55 mm**	**160**	**Soft Point**	2420	2190	1960	1760	1580	1420	2080	1700	1360
V250S	100	PS	**250 Savage**	**100**	**Pointed Soft Point**	2820	2467	2140	1839	1569	1339	1765	1351	1017
V270W	130	PS	**270 Win.**	**130**	**Pointed Soft Point**	3110	2823	2554	2300	2061	1837	2791	2300	1883
V270W	130	ST		**130**	**Sabretip**	3060	2776	2510	2259	2022	1801	2702	2225	1818
V270W	160	KK		**160**	**Kling-Kor Soft Point**	2660	2400	2156	1926	1712	1557	2513	2047	1650
V7X57M	160	KK	**7 mm Mauser**	**160**	**Kling-Kor Soft Point**	2520	2213	1928	1668	1438	1248	2256	1740	1320
V7RM	150	PS	**7 mm Rem. Magnum**	**150**	**Pointed Soft Point**	3110	2830	2568	2320	2085	1866	3221	2667	2196
V7RM	175	SP		**175**	**Soft Point**	2860	2645	2440	2244	2057	1879	3178	2718	2313
V3030W	150	KK	**30/30 Win.**	**150**	**Kling-Kor Soft Point**	2390	2018	1684	1398	1177	1036	1902	1356	944
V3030W	150	ST		**150**	**Sabretip**	2390	2018	1684	1398	1177	1036	1902	1356	944
V3030W	170	KK		**170**	**Kling-Kor Soft Point**	2200	1895	1619	1381	1191	1061	1827	1355	989
V3030W	170	ST		**170**	**Sabretip**	2200	1895	1619	1381	1191	1061	1827	1355	989
V3006S	110	PS	**30/06 Springfield**	**110**	**Pointed Soft Point**	3330	2799	2325	1901	1532	1239	2708	1913	1321
V3006S	150	PS		**150**	**Pointed Soft Point**	2910	2617	2342	2083	1843	1622	2820	2281	1827
V3006S	150	ST		**150**	**Sabretip**	2910	2617	2342	2083	1843	1622	2820	2281	1827
V3006S	180	KK		**180**	**Kling-Kor Soft Point**	2700	2348	2023	1727	1466	1251	2913	2203	1635
V3006S	180	ST		**180**	**Sabretip**	2700	2469	2250	2042	1846	1663	2913	2436	2023
V3006S	220	KK		**220**	**Kling-Kor Soft Point**	2410	2130	1870	1632	1422	1246	2837	2216	1708
V300WM	150	PS	**300 Win. Magnum**	**150**	**Pointed Soft Point**	3290	2951	2636	2342	2068	1813	3605	2900	2314
V300WM	180	ST		**180**	**Sabretip**	2960	2745	2540	2344	2157	1979	3501	3011	2578
V300S	150	PS	**300 Savage**	**150**	**Pointed Soft Point**	2630	2354	2095	1853	1631	1434	2303	1845	1462
V300S	180	KK		**180**	**Kling-Kor Soft Point**	2350	2025	1728	1467	1252	1098	2207	1639	1193
V303S	190	KK	**303 Savage**	**190**	**Kling-Kor Soft Point**	1890	1612	1372	1183	1055	970	1507	1096	794
V303B	150	PS	**303 British**	**150**	**Pointed Soft Point**	2700	2407	2132	1876	1642	1434	2428	1929	1514
V303B	150	ST		**150**	**Sabretip**	2700	2407	2132	1876	1642	1434	2428	1929	1514
V303B	180	KK		**180**	**Kling-Kor Soft Point**	2460	2112	1794	1512	1279	1109	2418	1782	1286
V303B	180	ST		**180**	**Sabretip**	2460	2223	2018	1816	1629	1459	2418	1993	1627
V303B	215	KK		**215**	**Kling-Kor Soft Point**	2170	1899	1652	1433	1250	1113	2248	1721	1303
V308W	110	PS	**308 Win.**	**110**	**Pointed Soft Point**	3180	2666	2206	1795	1444	1178	2470	1736	1188
V308W	150	PS		**150**	**Pointed Soft Point**	2820	2533	2263	2009	1774	1560	2648	2137	1705
V308W	150	ST		**150**	**Sabretip**	2820	2533	2263	2009	1774	1560	2648	2137	1705
V308W	180	KK		**180**	**Kling-Kor Soft Point**	2620	2259	1928	1630	1374	1175	2743	2039	1485
V308W	180	ST		**180**	**Sabretip**	2620	2393	2178	1974	1782	1604	2743	2288	1896
V308W	200	KK		**200**	**Kling-Kor Soft Point**	2450	2208	1980	1767	1572	1397	2665	2165	1741
V32WS	170	KK	**32 Win. Special**	**170**	**Kling-Kor Soft Point**	2250	1921	1626	1372	1175	1044	1911	1393	998
V3855W	255	SP	**38-55 Win.**	**255**	**Soft Point**	1320	1190	1091	1018	963	917	987	802	674
V44RM	240	SP	**44 Rem. Magnum**	**240**	**Soft Point**	1760	1374	1107	964	872	800	1650	1006	653

Centrefire Handgun Cartridges

Product Symbol			Description	Bullet Weight in grains	Bullet Type	Velocity Feet per second			Energy Foot-Pounds		
						Muzzle	50 Yards	100 Yards	Muzzle	50 Yards	100 Yards
V38	148	WC	**38 Spec.**	**148**	**Wadcutter**	710	634	566	166	132	105
V38	158	RNL	**38 Spec.**	**158**	**Round Nose Lead**	755	723	693	200	183	168
V38*	158	SWC	**38 Spec. + P**	**158**	**Semi-Wadcutter**	890	855	823	278	257	238
V38*	158	SWCHP	**38 Spec. + P**	**158**	**Semi-Wadcutter Hollow Point**	890	855	823	278	257	238
V38*	125	SJHP	**38 Spec. + P**	**125**	**Semi-Jacketed Hollow Point**	945	898	858	248	224	204
V9mm	115	MC	**9 mm Luger**	**115**	**Metal Clad**	1115	1047	971	341	280	241

TRAJECTORY Inches above (+) or below (−) line of sight 0 = Indicates yardage at which rifle is sighted in.

Foot-Pounds			Short Range						Long Range					
300 Yards	400 Yards	500 Yards	50 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	100 Yards	150 Yards	200 Yards	250 Yards	300 Yards	400 Yards	500 Yards
321	202	136	+0.5	+0.9	0	− 2.5	− 6.9	−13.7	+2.2	+1.9	0	− 3.8	−10.0	− 32.3	− 73.8
443	295	197	+0.4	+0.8	0	− 2.2	− 6.0	−11.8	+1.9	+1.6	0	− 3.3	− 8.5	− 26.7	− 59.6
603	410	272	+0.2	+0.5	0	− 1.6	− 4.4	− 8.7	+2.3	+2.6	+ 1.9	0	− 3.4	− 15.9	− 38.9
791	572	407	+0.3	+0.7	0	− 1.8	− 5.0	− 9.8	+1.6	+1.4	0	− 2.7	− 7.0	− 21.5	− 46.1
1089	882	708	+0.5	+0.9	0	− 2.2	− 5.8	−11.0	+1.9	+1.6	0	− 3.1	− 7.8	− 22.6	− 46.3
92[illegible]	690	508	+0.3	+0.6	0	− 1.6	− 4.5	− 8.7	+2.4	+2.7	+ 1.9	0	− 3.3	− 14.9	− 35.0
120[illegible]	983	792	+0.4	+0.8	0	− 1.9	− 5.2	− 9.9	+1.7	+1.5	0	− 2.8	− 7.0	− 20.4	− 41.7
1351	1100	887	+0.5	+0.8	0	− 2.1	− 5.6	−10.7	+1.9	+1.6	0	− 3.0	− 7.5	− 22.0	− 44.8
1110	885	715	+0.3	0	—	− 6.5	—	—	+3.5	—	0	− 5.0	−13.0	− 39.0	—
751	547	398	+0.2	0	− 1.6	− 4.9	−10.0	−17.4	+2.4	+2.0	0	− 3.9	−10.1	− 30.5	− 65.2
1527	1226	974	+0.4	+0.8	0	− 2.0	− 5.3	−10.0	+1.7	+1.5	0	− 2.8	− 7.1	− 20.8	− 42.7
1472	1180	936	+0.5	+0.8	0	− 2.0	− 5.5	−10.4	+1.8	+1.5	0	− 2.9	− 7.4	− 21.6	− 44.3
1317	1041	818	+0.2	0	− 1.7	− 5.2	−10.4	−17.8	+2.6	+2.1	0	− 4.0	−10.1	− 29.6	− 61.0
988	735	553	+0.3	0	− 2.1	− 6.2	−12.7	−21.9	+1.4	0	− 3.4	− 9.2	−17.7	− 44.5	− 88.3
1792	1448	1160	+0.4	+0.8	0	− 1.9	− 5.2	− 9.9	+1.7	+1.5	0	− 2.8	− 7.0	− 20.5	− 42.1
1956	1644	1372	+0.6	+0.9	0	− 2.3	− 6.0	−11.3	+2.0	+1.7	0	− 3.2	− 7.9	− 22.7	− 45.8
651	461	357	+0.5	0	− 2.6	− 7.7	−16.0	−27.9	+1.7	0	− 4.3	−11.6	−22.7	− 59.1	−120.5
651	461	357	+0.5	0	− 2.6	− 7.7	−16.0	−27.9	+1.7	0	− 4.3	−11.6	−22.7	− 59.1	−120.5
720	535	425	+0.6	0	− 3.0	− 8.9	−18.0	−31.1	+2.0	0	− 4.8	−13.0	−25.1	− 63.6	−126.7
720	535	425	+0.6	0	− 3.0	− 8.9	−18.0	−31.1	+2.0	0	− 4.8	−13.0	−25.1	− 63.6	−126.7
882	573	375	+0.4	+0.8	0	− 2.1	− 5.8	−11.5	+1.8	+1.6	0	− 3.2	− 8.3	− 26.4	− 59.6
1445	1131	876	+0.6	+0.9	0	− 2.3	− 6.3	−12.0	+2.1	+1.8	0	− 3.3	− 8.5	− 25.0	− 51.8
1445	1131	876	+0.6	+0.9	0	− 2.3	− 6.3	−12.0	+2.1	+1.8	0	− 3.3	− 8.5	− 25.0	− 51.8
1192	859	625	+0.2	0	− 1.8	− 5.5	−11.2	−19.5	+2.7	+2.3	0	− 4.4	−11.3	− 34.4	− 73.7
1666	1362	1105	+0.2	0	− 1.6	− 4.8	− 9.7	−16.5	+2.4	+2.0	0	− 3.7	− 9.3	− 27.0	− 54.9
1301	988	758	+0.4	0	− 2.3	− 6.8	−13.8	−23.6	+1.5	0	− 3.7	− 9.9	−19.0	− 47.4	− 93.1
1827	1424	1095	+0.3	+0.7	0	− 1.8	− 4.8	− 9.3	+2.6	+2.9	+ 2.1	0	− 3.5	− 15.4	− 35.5
2196	1859	1565	+0.5	+0.8	0	− 2.1	− 5.5	−10.4	+1.9	+1.6	0	− 2.9	− 7.3	− 20.9	− 41.9
1143	886	685	+0.3	0	− 1.8	− 5.4	−11.0	−18.8	+2.7	+2.2	0	− 4.2	−10.7	− 31.5	− 65.5
860	626	482	+0.5	0	− 2.6	− 7.7	−15.6	−27.1	+1.7	0	− 4.2	−11.3	−21.9	− 55.8	−112.0
591	469	397	+1.0	0	− 4.3	−12.6	−25.5	−43.7	+2.9	0	− 6.8	−18.3	−35.1	− 88.2	−172.5
1172	898	685	+0.2	0	− 1.7	− 5.1	−10.5	−18.0	+2.6	+2.1	0	− 4.0	−10.3	− 30.5	− 63.6
1172	898	685	+0.2	0	− 1.7	− 5.1	−10.5	−18.0	+2.6	+2.1	0	− 4.0	−10.3	− 30.5	− 63.6
914	654	491	+0.4	0	− 2.3	− 7.0	−14.3	−24.9	+1.6	0	− 3.9	−10.4	−20.2	− 51.9	−104.9
1318	1060	851	+0.3	0	− 2.1	− 6.1	−12.2	−20.8	+1.4	0	− 3.3	− 8.8	−16.6	− 40.4	− 77.4
980	746	591	+0.6	0	− 3.0	− 8.8	−17.8	−30.4	+2.0	0	− 4.8	−12.8	−24.4	− 61.1	−120.0
787	509	339	+0.5	+0.9	0	− 2.3	− 6.5	−12.8	+2.0	+1.8	0	− 3.5	− 9.3	− 29.5	− 66.7
1344	1048	810	+0.2	0	− 1.5	− 4.5	− 9.3	−15.9	+2.3	+1.9	0	− 3.6	− 9.1	− 26.9	− 55.7
1344	1048	810	+0.2	0	− 1.5	− 4.5	− 9.3	−15.9	+2.3	+1.9	0	− 3.6	− 9.1	− 26.9	− 55.7
1062	754	552	+0.3	0	− 2.0	− 6.0	−12.3	−21.4	+3.0	+2.5	0	− 4.8	−12.4	− 38.1	− 82.2
1557	1269	1028	+0.2	0	− 1.8	− 5.2	−10.4	−17.7	+2.6	+2.1	0	− 4.0	− 9.9	− 28.9	− 58.8
1386	1097	867	+0.4	0	− 2.1	− 6.3	−12.6	−21.4	+1.4	0	− 3.1	− 9.0	−17.2	− 42.1	− 81.1
710	521	411	+0.6	0	− 2.9	− 8.6	−17.6	−30.5	+1.9	0	− 4.7	−12.7	−24.7	− 63.2	−126.9
587	525	476	0	− 4.7	−15.4	−32.7	−57.2	−89.3	0	− 8.4	−23.4	−45.6	−75.2	−158.8	−277.4
495	405	341	0	− 2.7	−10.0	−23.2	−43.4	−71.9	0	− 6.0	−17.8	−36.6	−63.8	−147.1	−276.2

Mid Range Trajectory Inches		Barrel Length Inches
50 Yards	100 Yards	
2.4″	10.8″	4″
2.0″	8.3″	4″
1.4″	6.0″	4″
1.4″	6.0″	4″
1.3″	5.4″	4″
0.9″	3.9″	4″

RANGE TABLE* Values shown in this table are based on a sight height 1½″ above line of bore.

RECOMMENDED SIGHTING:
O indicates the most favourable sighting range in order to minimize the sighting problem at shorter and longer ranges. + indicates inches high; − indicates inches low.

The bullet velocity, energy, trajectory, and range information shown was obtained with standard test equipment in ballistic laboratories, and from range firing using normal firearms and sights. Ammunition performance is influenced by weather conditions such as temperature, barometric pressure, wind velocity and direction, and by age, dimensions or other characteristics of individual firearms. Results obtained in the field may therefore differ.

***CAUTION:** Ammunition with a (+P) marking on the case headstamp is loaded to a higher pressure.
Use (+P) cartridges only in firearms designated for this ammunition and so recommended by the gun manufacturer.

Imperial Rimfire

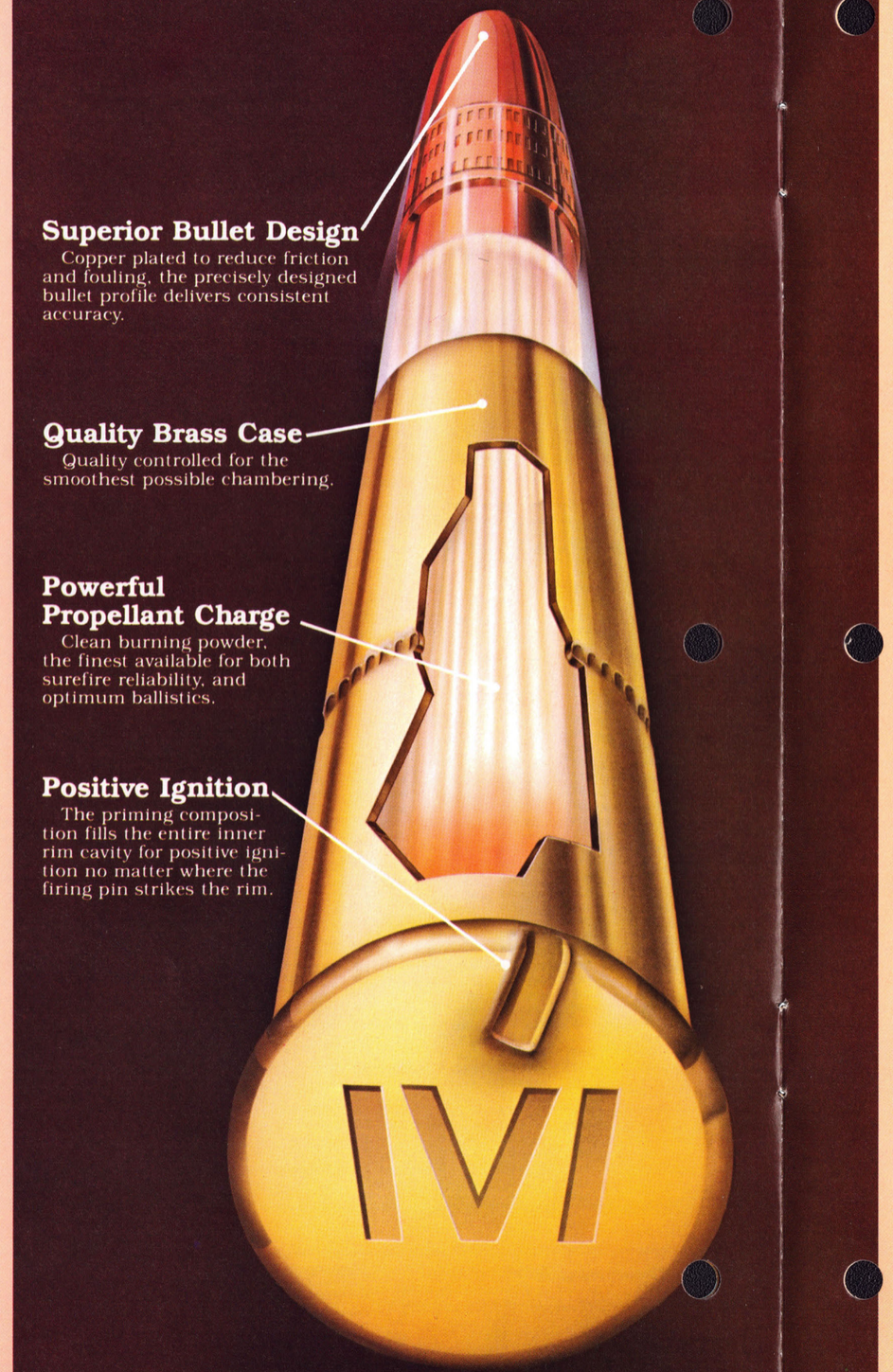
Quality ammunition for high scoring accuracy

This highly specialized ammunition delivers the pinpoint accuracy you demand in a "twenty-two" for both target shooting and small game hunting.

It is given the same manufacturing care as our highpowered cartridges and we use the same quality components.

The case, powder, bullet and priming are all designed for reliability and high accuracy. Bullet velocity is carefully maintained within narrow limits for minimum variation from shot to shot, lessened wind effect and uniform trajectory. Copper plating and a unique lubricant reduce friction and fouling and provide improved cartridge chambering, especially in autoloading pistols and rifles.

Whatever your .22 need, you'll find that Imperial has the right one. Quality ammunition that features a low firing report, negligible recoil and modest cost.

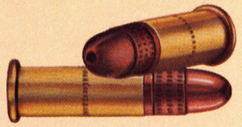

Superior Bullet Design
Copper plated to reduce friction and fouling, the precisely designed bullet profile delivers consistent accuracy.
Quality Brass Case
Quality controlled for the smoothest possible chambering.
Powerful Propellant Charge
Clean burning powder, the finest available for both surefire reliability, and optimum ballistics.
Positive Ignition
The priming composition fills the entire inner rim cavity for positive ignition no matter where the firing pin strikes the rim.
iVi

Performance Tips for Rimfire Shooting

Imperial 22 Cartridges

22 Short:
Shorter case and 29 grain bullet. Can be used in firearms with Long Rifle chambers, but performs best with firearms designed for the Short cartridge.

22 Long:
A combination of Long Rifle case and 29 grain Short bullet at high velocity. Particularly suited for general shooting with firearms having Long Rifle chambers.



22 Long Rifle Hollow Point:
A 36 grain bullet engineered for maximum expansion. Ideal for small game, pests and varmints.

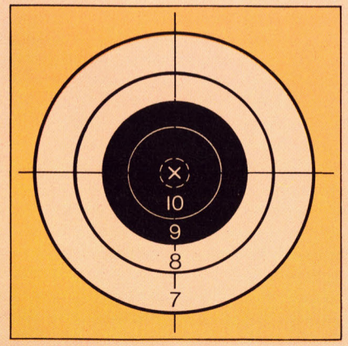
22 Long Rifle:
The most popular "Twenty-Two" for the best performance and accuracy for general shooting. This is a high velocity 40 grain solid bullet.

22 Long Rifle Target:
The special lower velocity, maintained to a constant level, minimizes wind effect, reduces recoil, and provides superior accuracy in competitive target shooting with rifles and handguns. This is a 40 grain solid point bullet.

(Illustrations of cartridges are oversize)

Targets: Check before you shoot.

Target shooting and "plinking" is a major use for .22 ammunition. If you're planning to shoot outdoors, make sure it is lawful in the area. Always ensure that there's a safe backstop behind your target and be sure to pick up all your shells and used targets when finished. When you're teaching someone to shoot, it's important to also teach shooting courtesy.

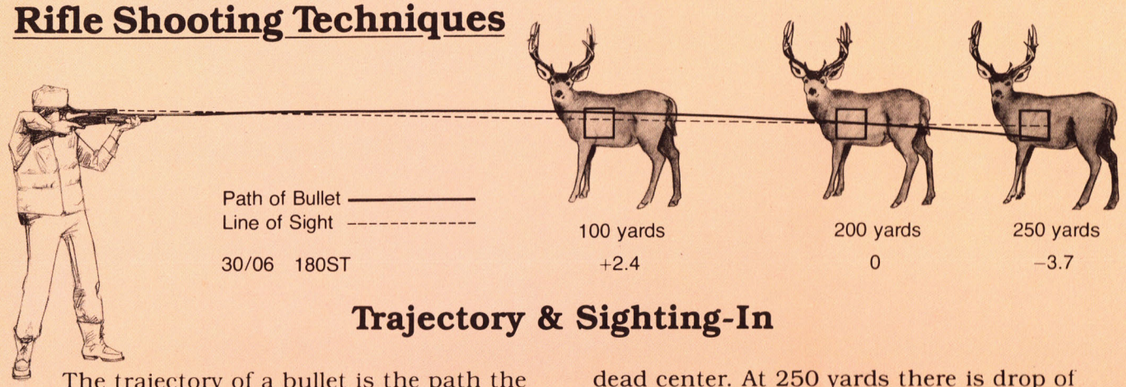


.22 Ballistics

Product Symbol	Description	Bullet Type (lead)	Bullet Weight Grains	Velocity Feet per Second Muzzle	Velocity Feet per Second 100 yards	Energy in Foot Pounds Muzzle	Energy in Foot Pounds 100 yards	Mid-Range Trajectory in inches for range of 100 yds.
V22 LRT	22 Long Rifle 'Imperial' TARGET	Solid Plated	40	1150	976	117	85	4.0
V22 S	22 Short 'Imperial'	Solid Plated	29	1095	903	77	52	4.5
V22 L	22 Long 'Imperial'	Solid Plated	29	1240	961	99	60	3.9
V22 LR	22 Long Rifle 'Imperial'	Solid Plated	40	1255	1017	140	92	3.6
V22 LRHP	22 Long Rifle 'Imperial' Hollow Point	Hollow Point Plated	36	1280	1015	135	85	3.5

For more enjoyment and results, learn more about proper techniques in shooting and hunting.

Rifle Shooting Techniques



Trajectory & Sighting-In

The trajectory of a bullet is the path the bullet travels from the muzzle of the rifle until it strikes a target. Although the line of sight is always straight, a bullet travels in an arc, crossing the line of sight shortly after leaving the barrel and crossing it again at the point where the rifle is sighted in.

If you check the ballistics chart on pages 10-11, you will note that the 30-06 180 grain ST is sighted in at 200 yards. Using the diagram above, you can see that at 200 yards, a 10 inch square target will be hit dead center. At 250 yards there is drop of 3.7 inches. The lower part of the target area can still be hit. At 300 yards, a drop of 9.3 inches will result in possibly missing the target. Although this caliber, like all others is loaded to factory standards, shooting habits will affect the sighting-in.

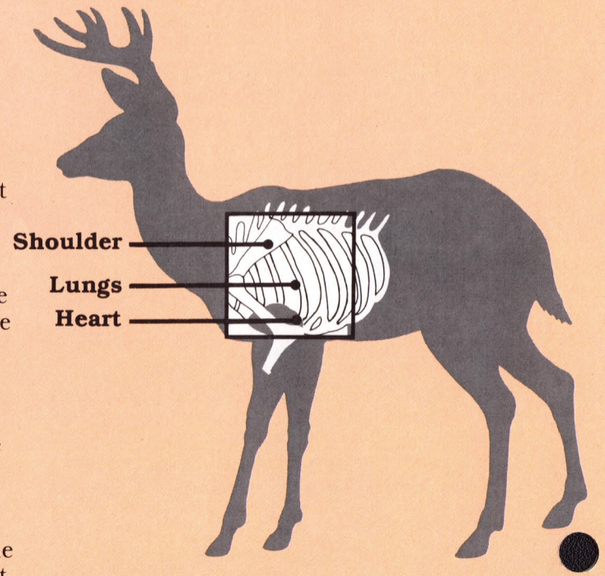
We suggest that you sight-in your rifle everytime you purchase a different lot of ammunition as it might have a slight variation at point of impact.

Trigger Control

Many a perfect shot has been spoiled by suddenly aiming and then jerking the trigger. The trigger on a rifle should be squeezed. Once you've taken aim, relax, take a deep breath and then slowly let it out while squeezing the trigger. It should be a continuous squeeze. Don't anticipate the actual shot. Once you've fired, hold your aim. Remembering your sight picture at the instant of discharge will help you to improve your accuracy next time you shoot.

Making Your Shot Count

Knowing where the lethal target areas are on game is the key to taking game quickly and cleanly. Basically, all game has three main target areas; shoulder, heart and lungs. The lung cavity normally presents the largest vital target area, also a low lung shot will possibly strike the heart, a forward shot, the shoulder. A shoulder shot is recommended as a stopping shot for charging game, such as grizzly. Taking moving game involves practice and the secret is follow-through even after the shot has been fired. A deer or antelope can cover a surprising distance in the time it takes to fire a round.



Shotgun Shooting Techniques

Picking your Target and Firing

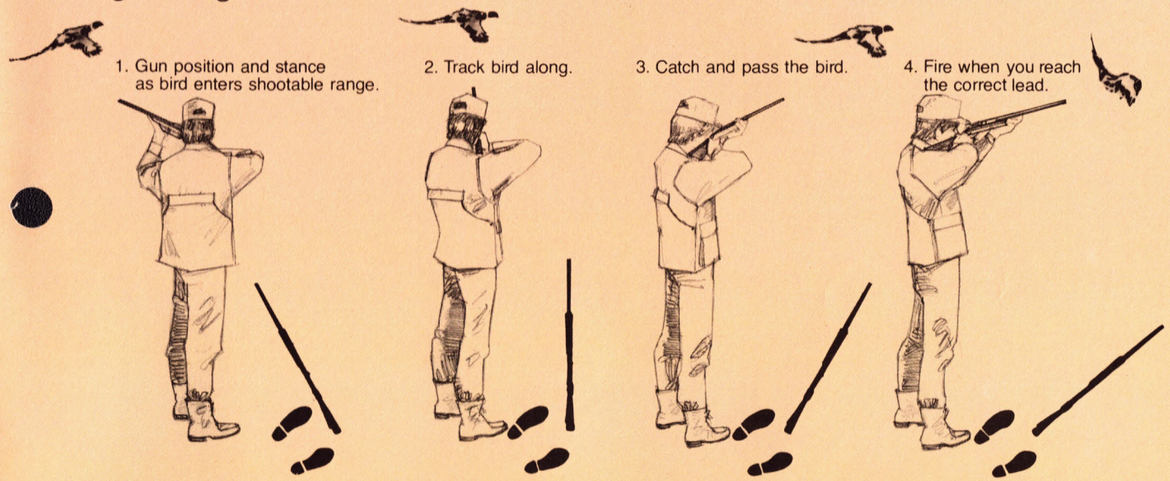
Experienced gun handlers will tell you that the two fundamental mistakes made with a shotgun is lifting the head and lack of follow-through. Unlike a rifle which is aimed, a shotgun is pointed at the target.

The shooter should keep his cheek on the stock, keep both eyes open whenever possible and focused on the target. Trigger action on a shotgun is different, too. Do not squeeze the trigger, pull sharply and quickly but not too hard.

Leading the Target

When you're shooting moving game, such as fast water fowl in full-flight, you must lead the game. Basically, this means picking up the target and estimating direction and speed, then swing the muzzle to a point ahead of the game before firing. Always follow-through after firing. Do not stop the shotgun, stopping the movement will usually result in a missed shot.

Leading the Target


1. Gun position and stance as bird enters shootable range.
2. Track bird along.
3. Catch and pass the bird.
4. Fire when you reach the correct lead.

Imperial Shooting Sports Program

One way to practice shooting all year 'round and improve your skill is through shooting club competitions.

Through the Imperial Shooting Sports Program, we've assisted many clubs in organizing competitions. For a nominal fee, we can also provide competition materials plus a full range of awards for both sporting rifle and handgun competition.

Any club, consisting of five members or more, may register in the Imperial Shooting Sports Program. Competitions may be held in indoor or outdoor ranges. If you are a member of a club or are thinking of forming one, write to: Imperial Shooting Sports Program, 1010 Sherbrooke St. West, Suite 608, Montreal, Quebec, H3A 2R7

Your Imperial Safety Guide

Experienced shooters are safety conscious. We suggest that you and everyone you shoot with become familiar with these important safety tips.

- Think of every firearm as a loaded gun and treat it accordingly. This is the basic rule of all gun safety.
- When carrying your firearm to or from a hunting site, it should always be unloaded and taken down. Use a proper case whenever transporting a firearm.
- Before loading, check the barrel and action for any obstructions, remove any oil or grease from the chamber and check to insure your firearm is chambered for the ammunition you intend to use.
- Keep the safety on until you are ready to shoot. Carry your gun in such a manner that you can control the direction of the muzzle. Be aware of where others are in your party.
- Don't pull the trigger until you have positively identified the target. Know your game and its identifying features.
- Pointing a gun is a serious and responsible decision. Only point at what you wish to shoot. Always encourage responsible behaviour among your fellow shooters.
- Stored guns should always be unloaded and ammunition stored separately. Keep each secured and out of reach of children.
- Never attempt to climb or jump with a closed or loaded gun. Always position your gun so it can be safely retrieved, never by the muzzle.
- Never shoot a bullet at a flat, hard surface including water. Before target practice, check your back stop.
- Guns and alcohol do not mix. Make it a point not to drink before you shoot or during shooting.

IMPORTANT: A Firearm Acquisition Certificate (F.A.C.) is not required to purchase ammunition.

IVI Inc.
1010 Sherbrooke St., West
Montreal, Quebec
H3A 2R7

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